

SAFETY HEALTH AND ENVIRONMENTAL AFFAIRS

MAY 0 6 1993 ORIGINAL MATERIAL SAFETY DATA SHEET

PRODUCT

NALCO 2508M LIQUID

Emergency Telephone Number Medical (708) 920-1510 (24 hours)

### SECTION 1 PRODUCT IDENTIFICATION

TRADE NAME: NALCO 2508M LIQUID

DESCRIPTION: A blend of fatty acids, polyglycols, polyglycol ester, and

oxyalkylate in kerosene and distillate

NFPA 704M/HMIS RATING: 1/1 HEALTH 1/1 FLAMMABILITY 0/0 REACTIVITY 0 OTHER

0=Insignificant 1=Slight 2=Moderate 3=High 4=Extreme

### SECTION 2 HAZARDOUS INGREDIENTS

Our hazard evaluation has identified the following chemical ingredient(s) as hazardous under OSHA's Hazard Communication Rule, 29 CFR 1910.1200. Consult Section 14 for the nature of the hazard(s).

INGREDIENT(S)

CAS # APPROX.%

Kerosene 8008-20-6 10-20

Straight run middle distillates 64741-44-2 40-70

### SECTION 3 PRECAUTIONARY LABEL INFORMATION

CAUTION: May cause irritation to skin and eyes. Avoid contact with skin, eyes, and clothing. Avoid prolonged or repeated breathing of vapor. Use with adequate ventilation. Do not take internally.

Empty containers may contain residual product. Do not reuse container unless properly reconditioned.

### SECTION 4 FIRST AID INFORMATION

EYES: Flush with water for 15 minutes. Call a physician.

SKIN: Wash thoroughly with soap and rinse with water. Call a

physician.

INGESTION: Do not induce vomiting. Give water. Call a physician. INHALATION: Remove to fresh air. Treat symptoms. Call a physician.

NOTE TO PHYSICIAN: Based on the individual reactions of the patient, the physician's judgment should be used to control symptoms and clinical condition.

CAUTION: If unconscious, having trouble breathing or in convulsions, do not

CAUTION: If unconscious, having trouble breathing or in convulsions, do not induce vomiting or give water.

### SECTION 5 HEALTH EFFECTS INFORMATION

PRIMARY ROUTE(S) OF EXPOSURE: Eye, Skin, Inhalation

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### SECTION 5 HEALTH EFFECTS INFORMATION

( CONTINUED )

EYE CONTACT:

Can cause mild, short-lasting irritation.

SKIN CONTACT:

Can cause moderate irritation.

INHALATION:

Prolonged inhalation of vapor may be harmful.

SYMPTOMS OF EXPOSURE:

ACUTE: Inhalation of high concentrations of product can cause nausea, dizziness, vomiting, stupor or unconsciousness.

CHRONIC: Prolonged skin contact with product can cause dry skin and defatting resulting in irritation and dermatitis.

AGGRAVATION OF EXISTING CONDITIONS: A review of available data does not identify any worsening of existing conditions.

### SECTION 6 TOXICOLOGY INFORMATION

ACUTE TOXICITY STUDIES: Acute toxicity studies have been conducted on this product. The results are shown below.

ACUTE ORAL TOXICITY (ALBINO RATS): LD50 = Greater than 15,380 mg/kg

ACUTE DERMAL TOXICITY (ALBINO RABBITS): LD50 = Greater than 3,038 mg/kg

PRIMARY SKIN IRRITATION TEST (ALBINO RABBITS):

SKIN IRRITATION INDEX DRAIZE RATING: 3.1/8.0 Moderately irritating

PRIMARY EYE IRRITATION TEST (ALBINO RABBITS):

EYE IRRITATION INDEX DRAIZE RATING: 6.0/110.0 Minimal irritation

#### SECTION 7 PHYSICAL AND CHEMICAL PROPERTIES

FORM: Liquid COLOR: Pale straw ODOR: Faintly hydrocarbon 6.9-7.5 lbs/gal. DENSITY:

SOLUBILITY IN WATER:

Insoluble

SPECIFIC GRAVITY:

0.83-0.90 @ 77 Degrees F ASIM D-1298 13.8 cps @ 80 Degrees F ASIM D-2983 45 Degrees F ASIM D-1177

FREEZE POINT: POUR POINT:

VISCOSITY:

45 Degrees F

FLASH POINT:

ASIM D-97 260 Degrees F (PMCC) ASIM D-93

NOTE: These physical properties are typical values for this product.

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### SECTION 8 FIRE AND EXPLOSION INFORMATION

FLASH POINT: 260 Degrees F (PMCC) ASIM D-93

EXTINGUISHING MEDIA: Based on the NFPA guide, use dry chemical, foam, carbon dioxide or other extinguishing agent suitable for Class B fires. Use water to cool containers exposed to fire. For large fires, use water spray or fog, thoroughly drenching the burning material.

UNUSUAL FIRE AND EXPLOSION HAZARD: Containers exposed in a fire should be cooled with water to prevent vapor pressure buildup leading to a rupture.

### SECTION 9 REACTIVITY INFORMATION

INCOMPATIBILITY: Avoid contact with strong oxidizers (eg. chlorine, peroxides, chromates, nitric acid, perchlorates, concentrated oxygen, permanganates) which can generate heat, fires, explosions and the release of toxic fumes.

STORAGE: Product should be stored at temperatures above 65 degrees F. If solidified, warm slowly (DO NOT USE LIVE STEAM) to 70-100 degrees F. Freezing does not reduce the efficiency of the product when properly reliquified.

THERMAL DECOMPOSITION PRODUCTS: In the event of combustion CO, CO2 may be formed. Do not breathe smoke or fumes. Wear suitable protective equipment.

### SECTION 10 PERSONAL PROTECTION EQUIPMENT

RESPIRATORY PROTECTION: Respiratory protection is not normally needed since the volatility and toxicity are low. If significant vapors, mists or aerosols are generated, wear a NIOSH approved or equivalent respirator.

For large spills, entry into large tanks, vessels or enclosed small spaces with inadequate ventilation, a pressure-demand, self-contained breathing apparatus is recommended.

VENTILATION: General ventilation is recommended.

PROTECTIVE EQUIPMENT: Use impermeable gloves and chemical splash goggles when attaching feeding equipment or doing maintenance.

The availability of an eye wash fountain and safety shower is recommended.

If clothing is contaminated, remove clothing and thoroughly wash the affected area. Launder contaminated clothing before reuse.

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### SECTION 11 SPILL AND DISPOSAL INFORMATION

IN CASE OF TRANSPORTATION ACCIDENTS, CALL THE FOLLOWING 24-HOUR TELEPHONE NUMBER (708-920-1510)

SPILL CONTROL AND RECOVERY:

Small liquid spills: Contain with absorbent material, such as clay, soil or any commercially available absorbent. Shovel reclaimed liquid and absorbent into recovery or salvage drums for disposal. Refer to CERCIA in Section 14.

Large liquid spills: Dike to prevent further movement and reclaim into recovery or salvage drums or tank truck for disposal. Refer to CERCIA in Section 14.

DISPOSAL: If this product becomes a waste, trace levels of benzene may cause the product to be classified as a hazardous waste under the Resource Conservation and Recovery Act (RCRA) 40CFR261. Hazardous Waste D018. Before disposal, the product should be analyzed for its benzene content, to determine if it meets the criteria of a hazardous waste under RCRA (Toxicity Characteristic Leaching Procedure {TCLP} Test).

As a hazardous liquid waste, it must be solidified with stabilizing agents (such as sand, fly ash, or cement) so that no free liquid remains before disposal to a licensed industrial waste landfill (Hazardous Waste Treatment, Storage and Disposal facility). A hazardous liquid waste can also be incinerated in accordance with local, state, and federal regulations.

### SECTION 12 ENVIRONMENTAL INFORMATION

BIOLOGICAL OXYGEN DEMAND (5-day BOD): 102,440 mg/L

CHEMICAL OXYGEN DEMAND (COD): 308,460 mg/L

TOTAL ORGANIC CARBON (TOC): 195,870 mg/L

AQUATIC DATA:

Results below are based on the product.

96 hour static acute LC50 to Bluegill Sunfish = 121 ppm TOXICITY RATING: Slightly toxic

96 hour static acute LC50 to Rainbow Trout = 113 ppm

TOXICITY RATING: Slightly toxic

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### SECTION 12 ENVIRONMENTAL INFORMATION

( CONTINUED )

48 hour static acute LC50 to Daphnia Magna = 6.5 mg/L

48 hour no observed effect concentration is 0.33 mg/L based on no mortality or abnormal effects.

TOXICITY RATING: Toxic

96 hour static acute LC50 to Fathead minnow = 190 mg/L

96 hour no observed effect concentration is less than 100 mg/L based on no mortality or abnormal effects.

TOXICITY RATING: Slightly toxic

If released into the environment, see CERCIA in Section 14.

### SECTION 13 TRANSPORTATION INFORMATION

DOT PROPER SHIPPING NAME/HAZARD CODE - PRODUCT IS NOT REGULATED DURING TRANSPORTATION

### SECTION 14 REGULATORY INFORMATION

The following regulations apply to this product.

### FEDERAL REGULATIONS:

OSHA'S HAZARD COMMUNICATION RULE, 29 CFR 1910.1200: Based on our hazard evaluation, the following ingredients in this product are hazardous and the reasons are shown below.

Kerosene - Skin irritant Straight run middle distillates - Skin irritant

Straight run middle distillates (oil mist) = TWA 5 mg/m3, STEL 10 mg/m3 ACGIH/TLV Kerosene (oil mist) = TWA 5 mg/m3, STEL 10 mg/m3 ACGIH/TLV

Straight run middle distillates (oil mist) = TWA 5 mg/m3 OSHA/PEL Kerosene (oil mist) = TWA 5 mg/m3 OSHA/PEL

Kerosene = TWA 100 ppm TLV Manufacturer's recommendation

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### SECTION 14 REGULATORY INFORMATION

( CONTINUED )

CERCIA, 40 CFR 117, 302: Notification of spills of this product is not required.

SARA/SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT OF 1986 (TITLE III) - SECTIONS 302, 311, 312 AND 313:

SECTION 302 - EXTREMELY HAZARDOUS SUBSTANCES (40 CFR 355): This product does not contain ingredients listed in Appendix A and B as an Extremely Hazardous Substance.

SECTIONS 311 and 312 - MATERIAL SAFETY DATA SHEET REQUIREMENTS (40 CFR 370): Our hazard evaluation has found this product to be hazardous. The product should be reported under the following EPA hazard categories:

XX Immediate (acute) health hazard

- -- Delayed (chronic) health hazard
- Fire hazard
- -- Sudden release of pressure hazard
- -- Reactive hazard

SECTION 313 - LIST OF TOXIC CHEMICALS (40 CFR 372): This product does not contain ingredients on the List of Toxic Chemicals.

TOXIC SUBSTANCES CONTROL ACT (TSCA): The chemical ingredients in this product are on the 8(b) Inventory List (40 CFR 710).

RESOURCE CONSERVATION AND RECOVERY ACT (RCRA), 40 CFR 261 SUBPART C & D: Consult Section 11 for RCRA classification.

FEDERAL WATER POLLUTION CONTROL ACT, CLEAN WATER ACT, 40 CFR 401.15 (formerly Sec. 307), 40 CFR 116 (formerly Sec. 311): None of the ingredients are specifically listed.

CLEAN AIR ACT, Sec. 111 (40 CFR 60), Sec. 112 (40 CFR 61, 1990 Amendments): This product contains the following ingredients covered by the Clean Air Act:

Polypropylene glycol - Section 111

STATE REGULATIONS:

CALIFORNIA PROPOSITION 65: This product does not contain any chemicals which require warning under

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### SECTION 14 REGULATORY INFORMATION

( CONTINUED )

California Proposition 65.

MICHIGAN CRITICAL MATERIALS:

This product does not contain ingredients listed on the Michigan Critical Materials Register.

STATE RIGHT TO KNOW LAWS:

The following ingredient(s) are disclosed for compliance with State Right To Know Laws:

Kerosene 8008-20-6
Oxyalkylate Trade secret
Polyglycol acid ester Trade secret
Straight run middle distillate 64741-44-2

### INTERNATIONAL REGULATIONS:

This is a WHMIS controlled product under The House of Commons of Canada Bill C-70 (Class D2B). The product contains the following substance(s), from the Ingredient Disclosure List or has been evaluated based on its toxicological properties, to contain the following hazardous ingredient(s):

Chemical Name

CAS # % Concentration Range

Kerosene 8008-20-6 10-20 Straight run middle distillates 64741-44-2 40-70

### SECTION 15 ADDITIONAL INFORMATION

None

### SECTION 16 USER'S RESPONSIBILITY

This product material safety data sheet provides health and safety information. The product is to be used in applications consistent with our product literature. Individuals handling this product should be informed of the recommended safety precautions and should have access to this information. For any other uses, exposures should be evaluated so that appropriate handling practices and training programs can be established to ensure safe workplace operations. Please consult your local sales representative for any further information.

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### SECTION 17 BIBLIOGRAPHY

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